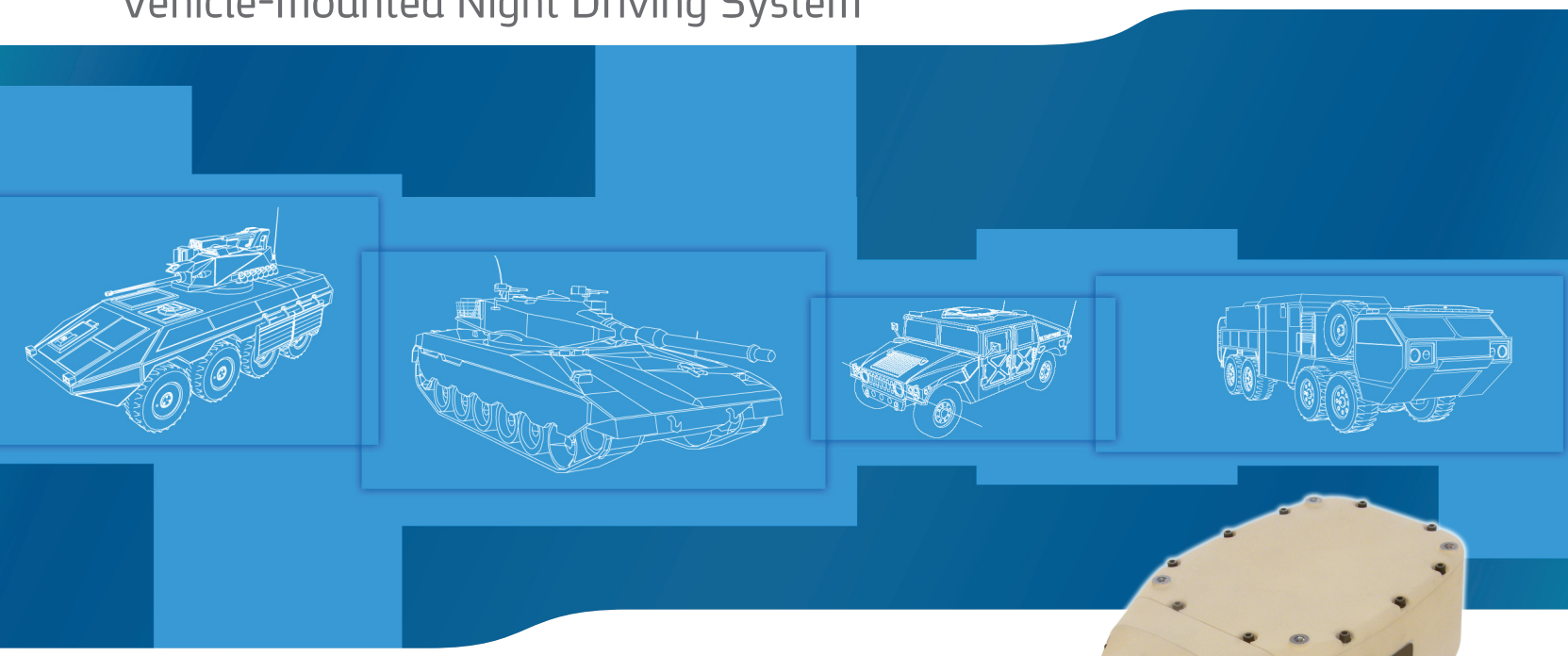
DVE

Driver Vision Enhancement - Uncooled Vehicle-mounted Night Driving System



Main Advantages & Features

- Proven operational experience on various platforms
- Operation in complete darkness and in harsh battlefield conditions
- Enables peripheral monitoring, threat detection and crew safety
- Passive system - noise free, does not expose vehicle/crew positions

System Description

- Front and rear sensors mounted on a motorized pan unit (640 x 480 elements)
- FOV of 48°; field of regard of 180°
- FLIR image displayed on high resolution LCD display (1024 x 768)
- Integral control unit enables control over the sensors' pan and toggling between front and rear sensors
- Allows user to control the sensors manually or by using preset modes for diverse driving conditions (modes synchronized between front/rear sensors)

Applications

Provides night driving abilities for all types of military vehicles:

- Tanks
- APCs
- Trucks
- Light tactical vehicles

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DVE

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Vehicle-mounted Night Driving System

Technical Data

General Specifications

System height	200 mm
Sensor height	110 mm
Pan unit height	90 mm

Environmental

Operating temperatures	-37°C to +49°C
Storage temperatures	-46°C to +71°C
Shock/vibration	Tracked/wheeled vehicles

Sensors

Spectral Band	7-14 µm
FOV	36° x 48° (H x V) optional 60°
Focus	Fixed focus, athermalized

Detector

Type	Uncooled microbolometer
No. of pixels	640 x 480
Video signal	RS170 (CCIR optional)
Image update rate	30 Hz (25 Hz in CCIR version)
Input power	18-32 Vdc nominal IAW MIL-STD-1275AT

Pan Unit/Fields of Regard

Horizontal	± 90° (±180° optional)
Preset angles per customer request	
Home/boresight mode	
Continuous movement mode	

Display

Viewing area	10.4 inches
Resolution	1024 x 768 pixels
Dimensions (mm)	180 (h) x 265 (w) x 55 (d)
Integrated dual/multi-sensor front panel control	
RS170/CCIR- PAL/NTSC compatible	

Object Dimensions	ΔT	Calculated Detection Range (m)	Calculated Recognition Range (m)	Calculated Identification Range (m)
2.3 x 2.3 m	2ºC	1100	340	170

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